NATIONAL SCIENCE FOUNDATION ADVISORY COMMITTEE BIOLOGICAL AND MEDICAL SCIENCES

PROPOSAL RATING SHEET

No.	Title	Investigator	Institution
B-30 81	Mutational origin of halophilic bacteria	William L. Flannery	Baylor U

The proposal is for a problem of fundamental interest, doubtless having been suggested by Allen's recent studies on the mutational basis of thermophily. The investigator appears to be somewhat naive as to the experiments he proposes; to my mind, a preliminary survey to substantiate the possibilities should preced any longer-term investment. The ideas are rather rate, and have to be so long as he has not actually initiated any genetic studies. The previous work of Doudoroff suggests, however, that several complications will arise, the rate of change of ionic strength possibly being as important a factor in bectuciel survival as the salt concentration itself. The I have had access to Flannery's review in press, which, tegether with his previous papers suggest a similar simple-mindedness of approach. Movever, notice also appears to be likely to go into this story, and it might be worthwhile to simply stir up some interest in this important problem. I should think one could make a good start on this kind of work with a minimum of assistance and expense, though the budget presented is not extravgant.

Score 2	Signatura
From 5 (low) to 1 (high)	Signature